

# Newsletter

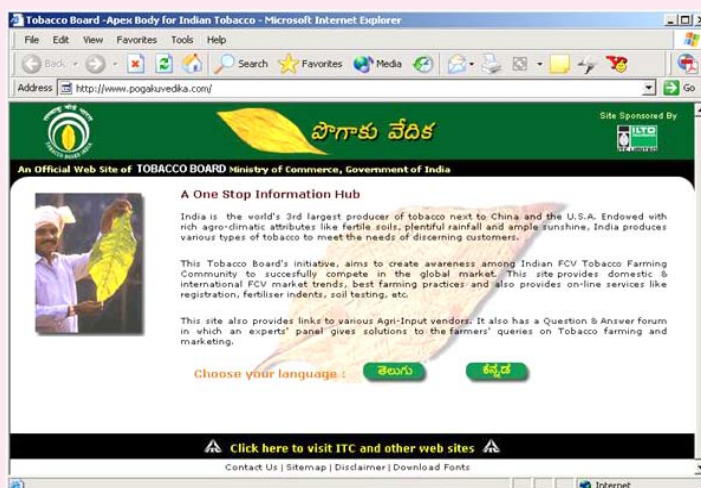
CENTRAL TOBACCO RESEARCH INSTITUTE, RAJAHMUNDRY - 533 105

## RESEARCH HIGHLIGHTS

- Analysis of Tobacco Specific Nitrosamines (TSNA) in FCV and Burley tobacco cultivated in different agro-ecological situations in India was undertaken by using the isothermal capillary GC-TEA method developed at this Institute. It is observed that the levels of TSNA in Indian FCV particularly from KLS are lower when compared to the foreign tobacco samples analysed. Type of soil, climatic conditions, genotype/ variety and agro techniques had a profound influence on the levels of TSNA.
- Application for joint patent by Indian Council of Agricultural Research and Council of Scientific and Industrial Research for the invention "Process for purification of solanesol (95+%) from crude/ enriched extracts of tobacco green leaf/ tobacco cured leaf/ tobacco waste" was filed with the Controller of Patents, Patent Officer, Delhi Branch, New Delhi.
- Application of alachlor @ 0.75 kg ai/ha two weeks before sowing and one hand weeding was found to control the weeds in tobacco nursery effectively.
- Application of neem cake @ 400 g/m<sup>2</sup> and mixing with soil and polythene tarping of tobacco nursery beds for four weeks followed by need based spraying of Ridomil MZ 72 WP @ 0.2% was found to give good control of damping-off disease (72%).
- Confidor (Imidacloprid) at 50 g a.i./ha was found to be highly effective against aphids and whitefly on tobacco without any residues on tobacco leaf.
- Twelve FCV advanced breeding lines bred for superior quality and productivity (more than 2000 kg/ha cured leaf yield) were found promising.
- 'Phyton T,' a chemical containing phosphorus and potassium was found effective against blight and black shank disease caused by *Phytophthora parasitica* var. *nicotianae* in FCV tobacco nursery.

## ON-LINE FARMER'S PORTAL

CTRI has taken up the transfer of technology as a challenging task and the technical know-how on the production practices is being taken to the doorsteps of the farming community through the on-line farmers portal, [www.indiantobaccofarmer.com](http://www.indiantobaccofarmer.com) in collaboration with Tobacco Board and ITC. The portal helps in the on-line interaction with FCV tobacco farmers of Andhra Pradesh and Karnataka in local languages on the problems faced by them and solving the problems instantly. Two kiosks one each at CTRI, Rajahmundry and CTRI Research Station, Hunsur were set up for on-line interaction with the farmers.





## **Birth Centenary Celebrations of late SRI CHOWDARI CHARAN SINGH, Ex-Prime Minister of India**

In connection with the Birth centenary celebrations of late Sri Chowdari Charan Singh, Ex- Prime Minister of India, following field day programmes were organized at CTRI, CTRI Research Stations and AINRPT Centres.

### **CTRI, Rajahmundry**

Field Day programmes were conducted in the villages of Bayyanagudem, Vadalakunta and Ganapavaram on 17.12.02, 19.12.02 and 20.12.02 respectively. The services rendered by Sri Chowdari Charan Singh to the farming community were appreciated. Scientists from CTRI participated in the programmes. The programmes were attended by about 200 farmers in each village.

A Kisan Mela was organized by KVK of CTRI at Rajahmundry on 24.12.2002, in which 250 farmers participated. Nine progressive farmers from different Mandals were felicitated on this occasion. A leaflet on oil seeds and pulses was released by the Director for the benefit of the farming community.

### **CTRI RS, Jeelugumilli**

A farmers' day was conducted on 23.12.02. Nearly 300 farmers from different zones of NLS area participated in the event. Scientists from CTRI explained the important technologies for NLS tobacco cultivation. Four farmers from the region were felicitated for 'Best tobacco crop management for the year 2001.' Leaflets on biofertilizers for different crops and control of important pests in NLS Tobacco crop were distributed to the farmers.



Dr. K. Deo Singh addressing farmers

### **CTRI RS, Kandukur**

Kisan Samman Divas was celebrated on 23.12.02. More than 250 farmers representing different auction platforms of Prakasam and Nellore districts participated in the programme. They were explained about various topics such as improved agro-techniques, preparation of organic manures, use of high grade phosphate rock and biofertilizers for reduction in cost of production, integrated plant protection measures etc. Some of the farmers from different platforms viz. Vellampalli, Ongole, Podili, Kandukur and DC Palli were felicitated on this occasion.

### **CTRI RS, Veda sandur**

A Farmers' Meet was arranged on 20.12.02 to celebrate Kisan Samman week. About 50 farmers participated and 10 farmers were honoured for achieving higher yields by implementing the recommended package of practices. Scientists and Technical staff interacted with the farmers and clarified on different aspects like varieties, diseases and pest management etc.

### **CTRI RS, Dinhata**

Farmer's week was conducted from 17.12.02 to 22.12.02. On the first day, farmers were explained about methods of tobacco cultivation, intercropping system in Motihari tobacco, varieties developed and plant protection measures. Kisan Divas was organized on 23.12.02. Ten progressive tobacco farmers from different Motihari & Jati growing areas of Dinhata were felicitated for getting higher yields by adopting recommended production technologies.



Felicitation of NLS progressive farmer



# TRANSFER OF TECHNOLOGY

## TRAINING PROGRAMMES

- Training Programme on "Fertilizer application, harvesting, curing and grading in Burley tobacco cultivation" was organized for 375 farmers in collaboration with M/s. Maddi Lakshmaiah & Co. by Sri R. Subba Rao, Principal Scientist and Dr. Y. Subbaiah, Scientist (Sr. Scale) on 3<sup>rd</sup> Oct. 2002 at CTRI, Rajahmundry.
- A training programme on "Light soil tobacco technologies" was organised for 120 NLS farmers in collaboration with M/s ITC Ltd. ILTD, Rajahmundry by Dr. Y. Subbaiah, Scientist (Sr. Scale) and Sri T. Krishnamurthy, Technical Officer, on 24.10.02 at CTRI, Rajahmundry.
- A training programme on "NLS tobacco cultivation" was organized for 35 farmers by Dr. Y. Subbaiah, Scientist (Sr. Scale) and Sri T. Krishnamurthy, Technical Officer on 21.11.02 at Jangareddygudem, W. G. Dt.

## IN HOUSE SEMINARS

- Dr. K. Deo Singh, Director, CTRI delivered a talk on "Factors influencing TSNAs in Indian tobacco" on 28.10.02.
- Dr. R.J. Ravindra, Director, Project Directorate of Biological Control (PDBC), Bangalore delivered a talk on "Nuclear Polyhedrosis viruses: Scope and potential of their use in India" on 12.11.02.
- Dr. B.R. Murthy, FNA and former Director NRL, IARI, New Delhi delivered a talk on "Disease resistance : revisited genetics' point of view" on 27.12.02.

## CONFERENCES/WORKSHOPS

- Dr. M.M. Shenoi, Principal Scientist & Head, CTRI RS, Hunsur attended 'Asian Congress of Mycology & Pathology' held at Mysore from 1-4 Oct., 2002.
- Dr.V. Krishnamurthy, Principal Scientist attended 67<sup>th</sup> Annual Convention of the Indian Society of Soil Science held at J.N. Krishi Vishwa Vidyalaya, Jabalpur during 11-15 Nov., 2002.
- Dr. K. Deo Singh, Dr. P Harishu Kumar, Dr. V. Krishna Murthy, Dr. (Mrs.) D.V. Subhashini, Sri M. Sannibabu, Dr. C. Chandrasekhara Rao, Dr. S.V. Krishna Reddy and Dr. (Mrs.) S. Kasturi Krishna attended 2<sup>nd</sup> International Agronomy Congress on 'Balancing Food and Environmental Security' held at IARI, New Delhi during Nov. 26-30, 2002.
- Dr. Y. Subbaiah, Scientist (Sr. Scale) and Smt. V.V. Lakshmi Kumari, Technical Officer (T-9) attended South Zone Regional Workshop on 'Training management' at College of Agriculture, ANGRAU, Tirupathi from 27-28 November, 2002.
- Dr. M.M. Shenoi, Principal Scientist & Head, CTRI RS, Hunsur attended Indian Phytopathological Society

South Zone conference held at University of Agricultural Sciences, Bangalore from 19-21 Dec., 2002.

## RADIO TALKS

- శారీరక మానసిక ఆరోగ్యానికి పెరటి తోటల పెంపకము. (Kitchen-garden crops for sound health). By Smt. N. Aruna Kumari, on AIR, Visakhapatnam on 9.10.02.
- పెరట్లో వివిధజాతుల కోళ్ళ పెంపకము. (Backyard poultry). By Dr. P.V.V. Siva Rao, on AIR Visakhapatnam on 22.10.02.
- గ్రామీణ ప్రాంతాలలో సమర్థవంతంగా సౌరశక్తి వినియోగము. (Effective utilization of solar energy in rural areas). By Smt. V.V. Lakshmi Kumari on AIR, Visakhapatnam on 18.11.02.
- వర్షనీయా పొగాకు నారుమడుల పెంపకము. (Raising FCV tobacco nurseries). By Dr. R.V.S. Rao, on AIR, Visakhapatnam on 8-12-02.
- Disease management in tobacco. By Sri A.C. Rajasekharan, on AIR, Madurai on 13.12.02.
- యంత్రాల ద్వారా నారును తీసే విధానము. (Mechanization in fibre separation). Sri R. Sudhakar on AIR, Visakhapatnam, 18.12.02.
- చీడ పీడల నియంత్రణలో వృక్ష సంబంధిత సస్యరక్షణ మందులు. (Botanicals for the control of insect-pests). By Sri S. Sitaramaiah, on AIR, Visakhapatnam on 28.12.02.

## RETIREMENTS

Name	Place	Date
Sri S. Krishnamurthy, T5	CTRI, Rajahmundry	30.11.2002
Sri G.B.V.N. Rao, P.A.	KVK, Kalavacherla	30.11.2002
Sri K. Someswara Rao, SS Gr.II	CTRI, Rajahmundry	30.11.2002

## OBITUARY

Sri P. Gavarraju, SS Gr. IV, CTRI Farm, Katheru expired on 17.12.2002.

## PAPERS PUBLISHED

- Bharathi, J.L., U. Sreedhar, B. Kishore and J.V. Prasad. Age specific life and fertility table of *Lasioderma serricorne* F. on the flue-cured virginia (FCV) tobacco seed. Tob. Res. 28(1) : 44-50, 2002.
- Bharathi, J.L., U. Sreedhar, B. Kishore and J.V. Prasad. Life table studies of cigarette beetle, *Lasioderma serricorne*, Fab. on Chewing and natu tobacco. Tob. Res. 28(1) : 37 - 43, 2002.
- Krishnamurthy, V., R. Srinivasulu and K. Deo Singh. Irrigation water quality in flue-cured tobacco growing zones of Southern Coastal A.P. Tob. Res. 28(1) : 72 - 5, 2002.
- Kumaresan, M. and K. Palanichamy. Performance of chewing tobacco genotypes with varying levels of spacing, nitrogen and topping. Tob. Res. 28(1): 76 - 8, 2002.
- Manoharan, K., M. Kumaresan and K. Palanichami. Economic viability of various alternate crops for chewing tobacco in Tamilnadu. Tob. Res. 28(1): 20 - 3, 2002.
- Nagarajan, K., C.V.K. Reddy, Satyajit Ray and S.S. Sreenivas. Efficacy of the cyclazole and trizole group of chemicals in the management of anthracnose in FCV tobacco nurseries. Tob. Res. 28(1): 51 - 5, 2002.
- Nageswara Rao, K., K. Siva Raju and D. Prabhakara Babu. Effect of artificial ageing and long term storage at ambient temperature on biochemical changes and viability in FCV tobacco seed. Tob. Res. 28(1) : 56 - 9, 2002.
- Ramakrishnan, S., S.M. Viswanath and M.M. Sheno. Comparative efficacy of scaling methods with Basamid G application for management of root-knot nematodes and weeds in tobacco nurseries. Tob. Res. 28(1): 10 - 4, 2002.
- Sarala, K., K. Nageswara Rao and N.S. Murthy. Performance of tobacco lines under polyethylene glycol created water stress in tissue culture. Tob. Res. 28(1) : 79 - 82, 2002.
- Sheno, M.M., S.S. Sreenivas and S.M. Abdul Wajid. Qualitative and quantitative studies on storage molds of FCV tobacco. Tob. Res. 28(1): 65 - 71, 2002.

## KRISHI VIGYAN KENDRA

### World Food Day

KVK organized World Food Day at Kalavacherla on 16.10.2002. Dr. K. Deo Singh, Director, CTRI was the Chief Guest and released a leaflet. Nearly 50 farm-women attended the programme. Dr. V. Venkatasubramanian, emphasized the importance of the day.

### Women in Agriculture Day

Women in Agriculture Day was organized at KVK on 4.12.02 and 120 farm women participated in the function. A leaflet on "Drudgery reducing agricultural implements for women in agriculture" was released on this occasion. Improved varieties of 150 mango grafts were distributed to the participants.

### Kisan Ghosti

A Kisan Ghosti was organized on 5.11.02 at Mukkamala on World Trade Organization. Dr. B.S. Hansra, ADG, (Agric. Extn.), ICAR,

New Delhi was the Chief Guest. Dr. V. Venkatasubramanian, Dr. Sreenivasulu, Dr. Raghava Rao and Joint Director of Agriculture participated in the programme. About 200 farmers attended from different mandals.

### Kisan Mela

Kisan Mela on Oil seeds and pulses was organized on 21.12.02 at Mukkamala village. Dr. K. Deo Singh, Director, CTRI was the Chief Guest. Nearly 125 farmers participated in the Mela.



Sri A.I. Narayanan, Smt. N. Aruna Kumari, Dr. V.V. Subramanian and Smt. V.V. Lakshmi Kumari

Edited and Compiled by Y.V. Suryanarayana and Dr. C.V. Narasimha Rao,  
DTP Type setting by Md. Elias, Photographs by N.V. Raju,  
Published by the Director, CTRI, Rajahmundry -533 105, India  
Ph: 0883-2449871-4, FAX: 0091-0883-2448341, E-mail: ctri@sify.com